

What is claimed is:

1. A display device comprising:

a first substrate having a display area in which a plurality of pixels are arranged in a matrix manner on a main surface of the first substrate and a first seal area formed at a periphery of the display area on the main surface of the first substrate, each of the plurality of pixels has a light emitting element and a pixel circuit including an active element; and

a second substrate disposed to cover the main surface of the first substrate with a main surface of the second substrate, and having a second seal area at a part of the main surface of the second substrate opposite to the first seal area of the first substrate, the first substrate and the second substrate are stuck to each other by a seal material interposed between the first seal area and the second area, wherein

the first substrate has a cathode film which is commonly utilized for the respective light emitting elements of the plurality of pixels and covers the second substrate side of the display area,

at least one driving circuit driving the plurality of pixels is arranged outside of the display area on the main surface of the first substrate,

the second substrate has a recessed portion formed at a part of the main surface of the second substrate within the second seal area and a moisture absorbent layer adhering to the recessed portion, and

the cathode film has a light shielding property and is formed beyond the display area to cover the at least one driving circuit also.

2. A display device according to claim 1, wherein

the cathode film is a conductive film formed of a material selected from a group consisting of aluminum, chromium, titanium, molybdenum, tungsten, hafnium, yttrium, copper, silver, and an alloy which contains at least two elements selected from a group consisting of aluminum, chromium, titanium, molybdenum, tungsten, hafnium, yttrium,

copper, and silver, and

the conductive film is thick enough to cut off ultraviolet with which the seal material is irradiated to be cured thereby.

3. A display device according to claim 1, wherein

5 the cathode film has a laminated structure formed by stacking at least two conductive films,

each of the conductive films is formed of a material selected from a group consisting of aluminum, chromium, titanium, molybdenum, tungsten, hafnium, yttrium, copper, silver, and an alloy which contains at least two elements selected from a group
10 consisting of aluminum, chromium, titanium, molybdenum, tungsten, hafnium, yttrium, copper, and silver, and

the laminated structure is thick enough to block ultraviolet with which the seal material is irradiated to be cured thereby.

4. A display device according to claim 1, wherein

15 the light emitting element is formed of an organic semiconductor material.

5. A display device according to claim 1, wherein

an area where the at least one driving circuit is provided does not extended outside the first seal region on the main surface of the first substrate.

6. A display device according to claim 1, wherein

20 the light emitting element has a light emitting layer formed of an organic electroluminescent material.

7. A display device according to claim 1, wherein

the first seal region surrounds the display region in the main surface of the first substrate.

25 8. A display device according to claim 1, wherein

the second seal region surrounds the recessed portion formed at the main surface of the second substrate in the main surface thereof.

9. A display device comprising:

a first substrate having a display area in which a plurality of pixels are arranged in a matrix manner on a main surface of the first substrate and a first seal area formed at a periphery of the display area on the main surface of the first substrate, each of the plurality of pixels includes a light emitting element and an active element; and

a second substrate disposed to cover the main surface of the first substrate with a main surface of the second substrate, and having a second seal area at a part of the main surface of the second substrate opposite to the first seal area of the first substrate, the first substrate and the second substrate are stuck to each other by a seal material interposed between the first seal area and the second area, wherein

at least one driving circuit driving the plurality of pixels is arranged outside of the display area on the main surface of the first substrate,

the second substrate has a recessed portion formed at a part of the main surface of the second substrate within the second seal area and an moisture absorbent layer having a light shielding property adheres to the recessed portion, and

the moisture absorbent layer is arranged to cover the display area and the at least one driving circuit.

10. A display device according to claim 9, wherein

the moisture absorbent layer is formed of a moisture absorbent containing pigments dispersed therein, and

the pigments cut off ultraviolet with which the seal material is irradiated to be cured thereby.

11. A display device according to claim 10, wherein

the pigments are formed of a material selected from a group consisting of carbon black and titanium black.

12. A display device according to claim 9, wherein
the moisture absorbent layer formed of a moisture absorbent containing dye
mixed therein, and

the dye cuts off ultraviolet with which the seal material is irradiated to be cured
5 thereby.

13. A display device according to claim 9, wherein
an adhesive with which the moisture absorbent layer adheres to the recessed
portion of the main surface of the second substrate contains pigments dispersed therein,
the pigments block ultraviolet with which the seal material is irradiated to be

10 cured thereby.

14. A display device according to claim 13, wherein
the pigments are formed of a material selected from a group consisting of
carbon black and titanium black.

15. A display device according to claim 9, wherein
15 an adhesive with which the moisture absorbent layer adheres to the recessed
portion of the main surface of the second substrate contains dye mixed therein, and
the dye blocks ultraviolet with which the seal material is irradiated to be cured
thereby.

16. A display device comprising:

20 a first substrate having a display area in which a plurality of pixels are arranged
in a matrix manner on a main surface of the first substrate and a first seal area formed at
a periphery of the display area on the main surface of the first substrate, each of the
plurality of pixels includes a light emitting element and an active element; and

a second substrate disposed to cover the main surface of the first substrate with
25 a main surface of the second substrate, and having a second seal area at a part of the
main surface of the second substrate opposite to the first seal area of the first substrate,
the first substrate and the second substrate are stuck to each other by a seal material

interposed between the first seal area and the second area, wherein

at least one driving circuit driving the plurality of pixels is arranged outside of the display area on the main surface of the first substrate,

the second substrate has a recessed portion formed at a part of the main surface of the second substrate within the second seal area and a coating film of an moisture absorbent layer having a light shielding property is put in the recessed portion, and

the moisture absorbent layer is arranged to cover the display area and the at least one driving circuit.

17. A display device comprising:

a first substrate having a display area in which a plurality of pixels are arranged in a matrix manner on a main surface of the first substrate and a first seal area formed at a periphery of the display area on the main surface of the first substrate, each of the plurality of pixels includes a light emitting element and an active element; and

a second substrate disposed to cover the main surface of the first substrate with a main surface of the second substrate, and having a second seal area at a part of the main surface of the second substrate opposite to the first seal area of the first substrate, the first substrate and the second substrate are stuck to each other by a seal material interposed between the first seal area and the second area, wherein

at least one driving circuit driving the plurality of pixels is arranged outside of the display area on the main surface of the first substrate,

the second substrate has a recessed portion formed at a part of the main surface of the second substrate within the second seal area and a light shielding film covering the display area and the at least one driving circuit is put in the recessed portion, and

a moisture absorbent layer adheres on the light shielding film.

18. A display device comprising:

a first substrate having a display area in which a plurality of pixels are arranged in a matrix manner on a main surface of the first substrate and a first seal area formed at

a periphery of the display area on the main surface of the first substrate, each of the plurality of pixels includes a light emitting element and an active element; and

a second substrate disposed to cover the main surface of the first substrate with a main surface of the second substrate, and having a second seal area at a part of the main surface of the second substrate opposite to the first seal area of the first substrate, the first substrate and the second substrate are stuck to each other by a seal material interposed between the first seal area and the second area, wherein

at least one driving circuit driving the plurality of pixels is arranged outside of the display area on the main surface of the first substrate,

the second substrate has a recessed portion formed at a part of the main surface of the second substrate which is opposite to the main surface of the first substrate and located within the second seal area, a moisture absorbent layer adhering to the recessed portion, and a light shielding film being arranged on another main surface thereof at opposite side thereof to the main surface of the first substrate and covering the display area and the at least one driving circuit.

19. A display device comprising:

a first substrate having a display area in which a plurality of pixels are arranged in a matrix manner on a main surface of the first substrate and a first seal area formed at a periphery of the display area on the main surface of the first substrate, each of the plurality of pixels includes a light emitting element and an active element; and

a second substrate disposed to cover the main surface of the first substrate with a main surface of the second substrate, and having a second seal area at a part of the main surface of the second substrate opposite to the first seal area of the first substrate, the first substrate and the second substrate are stuck to each other by a seal material interposed between the first seal area and the second area, wherein

the first substrate has a cathode film which is commonly utilized for the respective light emitting elements of the plurality of pixels and covers the second

substrate side of the display area,

at least one driving circuit driving the plurality of pixels is arranged in a portion of the main surface of the first substrate being outside of the display area and extending from a part of the first seal area to an inside of the first seal area,

5 the second substrate has a recessed portion formed at a part of the main surface of the second substrate within the second seal area and a moisture absorbent layer adhering to the recessed portion, and

the cathode film has a light shielding property and is formed beyond the display area to cover the at least one driving circuit also.

10 20. A display device according to claim 19, wherein
the light emitting element contains an organic semiconductor film.